



# Main MMC console

## EXHIBIT A

Application\_Center\_Server - [Console Root\Application Center Server\MyKillerCluster]

Console Window Help

Action View Favorites

Tree Favorites

- Console Root
  - Application Center Server
    - MyKillerCluster
      - Members
        - ORIBRIG01AS Online Alive

Server Status

ORIBRIG01AS Online Alive

Remove server from RAC

Set offline

All Tasks

New Window from Here

Refresh

Properties

Help

MyKillerCluster

Cluster Performance

Charted Period: Fifteen Minutes

100

50

0

4:00:00 PM 7:36:40 PM 7:39:10 PM 7:41:40 PM 7:44:10 PM

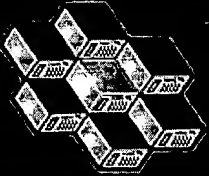
Color	Min	Max	Average	Last	Scale
	6.60660660	21.5215215	20.0462578	6.60660660	1
	12890112	13479936	8298058.25	12890112	0
	0.85175845	2.34927270	5.50277259	0.85175845	0

Add Remove

Contains operations that can be performed on the object.

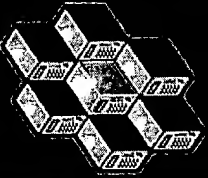
Application Center 2000

Best Available Copy



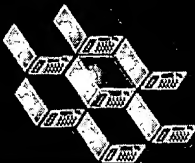
# Monitoring

- Integrated monitoring tools
  - Roll up perf, event, log data from across multiple servers into integrated console
  - Allow drill down into specific machines, resources
  - NON GOAL: Usage Analysis / Data Mining
- Self-healing, Self-tuning
  - Monitor health of servers and applications
  - Set thresholds for acceptable performance
  - Fix it if we can

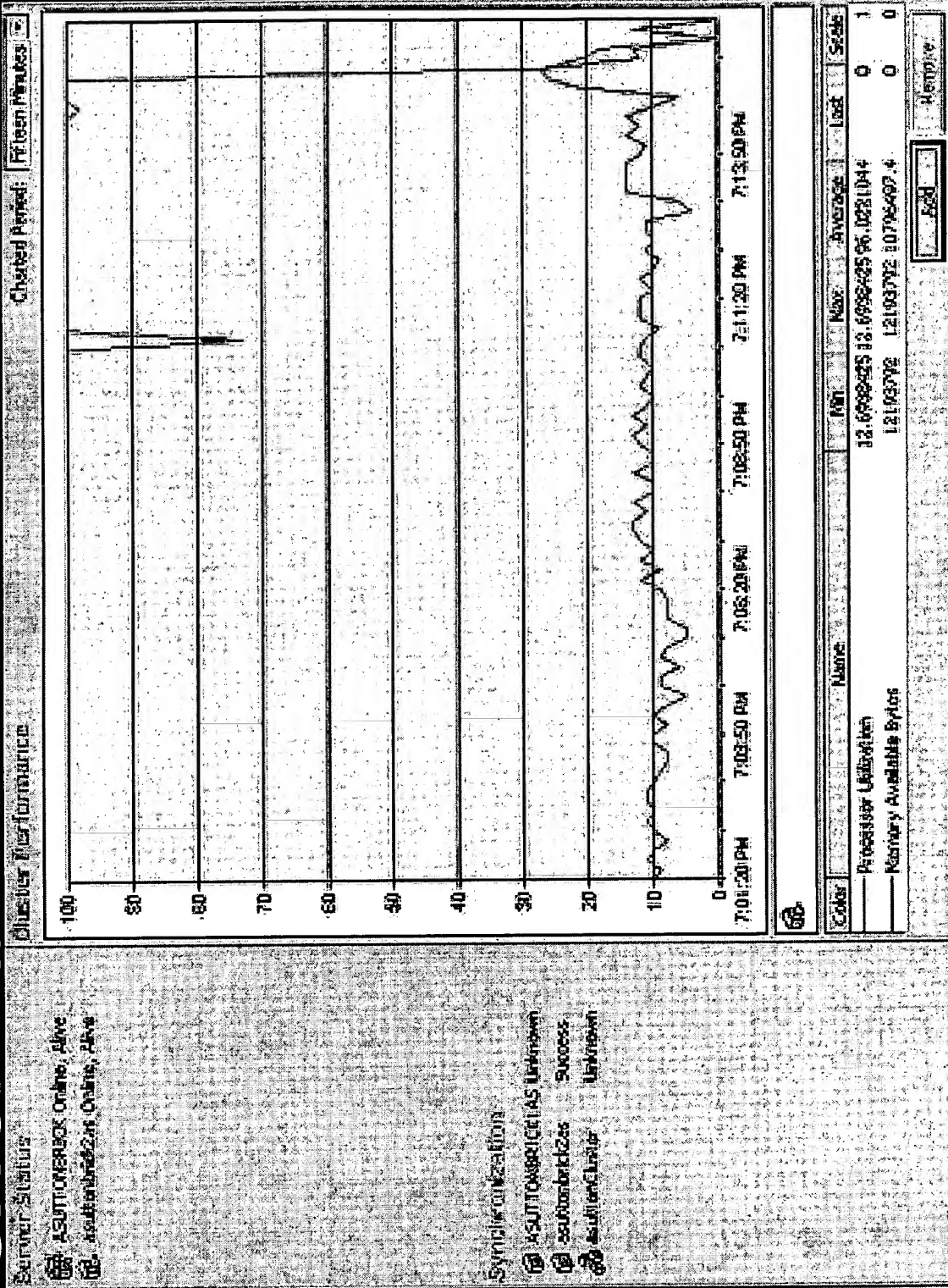


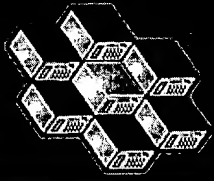
# AppCenter Performance Monitor

- Real-Time to Intraday to Weeks to Years
  - Rollup data to store larger time periods
  - Interpolate down large time periods to fit chart
- Graphing View
  - Can select which counters to graph
  - Counters in a 10-15 preset list.
  - Last value, avg/sum, min, max across servers
- Default charts in main UI
- Custom charts in separate windows



# Performance Monitor UI

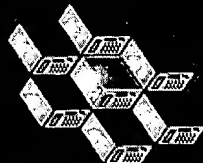




## Viewing the Logs

- View event logs for cluster or per server
  - Log agent does distributed query, aggregates, and sorts
- Cluster Event Viewer (AppCenter, Windows, etc.)
  - Filter by source, type, date, server, severity





# Log Viewer UI

Category: 
Type: 
Source: 
Event ID: 
Filter:

Errors and Warnings

Date	Time	Server	Source	Event ID	Description
2/26/2000	8:57:50 PM	localhost	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	8:57:50 PM	localhost	Processor	0	CPU Overload
2/26/2000	8:58:46 PM	localhost	WinMgmt	37	0
2/26/2000	8:58:46 PM	localhost	PerfLib	1002	0
2/26/2000	8:58:46 PM	localhost	W3Cts	1003	0
2/26/2000	8:58:46 PM	localhost	PerfLib	1015	0
2/26/2000	8:58:46 PM	localhost	WinMgmt	37	0
2/26/2000	8:58:46 PM	localhost	Service Control Manager	7032	0
2/26/2000	8:58:46 PM	localhost	Memory	0	Low memory condition
2/26/2000	8:58:46 PM	localhost	W3Cts	1003	0
2/26/2000	8:58:46 PM	localhost	PerfLib	1015	0
2/26/2000	8:58:46 PM	localhost	Home Page verification	0	Page Returned an error
2/26/2000	8:58:46 PM	localhost	W3Cts	1003	W3Cts: Stopped/Started
2/26/2000	7:28:16 PM	localhost	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	7:19:54 PM	localhost	Performance Monitor	101	PercentProcessorTime > 90
2/26/2000	7:18:34 PM	localhost	Processor	0	CPU Overload
2/26/2000	7:18:34 PM	localhost	W3Cts	1003	0
2/26/2000	7:18:16 PM	localhost	WinMgmt	61	0
2/26/2000	7:18:16 PM	localhost	PerfLib	1015	0
2/26/2000	7:17:16 PM	localhost	WinMgmt	61	0

2/26/2000 0:57:50 PM localhost

PercentProcessorTime > 90

Source: Performance Monitor

The long description for this event is displayed here.

Find out more information about this event

Visit Microsoft Support Center for related support information (KB article: 8101)

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